

## ABSTRACT

An automatic transfer switch (ATS) system and method of operating an ATS system are disclosed. The ATS system includes at least one input port capable of being coupled to at least one power source to receive an input power, a first internal component that requires internal power satisfying a first criterion in order to properly operate, and a power converter such as a switch mode power supply that is coupled to the first internal component and to the at least one input port. The power converter is capable of receiving the input power by way of the at least one input port and converting the input power into the internal power to be provided to the first internal component. The internal power provided by the power converter satisfies the first criterion, even though at least one characteristic of the input power varies within a range.